**Data structures and algorithms**

**Financial Forecasting**

**Scenario:**

You are developing a financial forecasting tool that predicts future values based on past data.

**Code :**

import java.util.\* ;

public class finance {

static double calculate(double r,double principal,int year) {

if(year==0) return principal;

return calculate(r,principal,year-1)\*(1+r) ;

}

public static void main(String[] args) {

Scanner scan=new Scanner(System.in) ;

double principal=scan.nextDouble() ;

int percent=scan.nextInt();

int year=scan.nextInt();

double r=(double) percent/100.0 ;

System.out.println("Amount after "+year+" is "+calculate(r,principal,year)) ;}

}

